

Title (en)

Method and device for manufacturing a preform for optical fibres

Title (de)

Verfahren und Vorrichtung zum Herstellen einer Vorform für optische Fasern

Title (fr)

Procédé et dispositif de fabrication d'une préforme pour fibres optiques

Publication

EP 1270521 A1 20030102 (EN)

Application

EP 01202446 A 20010625

Priority

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- EP 0004134 W 20000509

Abstract (en)

A device for manufacturing of a preform for optical fibres through chemical deposition, including at least one gripping member rotatably mounted around an axis Z-Z and adapted to hold at least one end of at least one elongated element forming a chemical deposition substrate for the formation of a preform for optical fibres. Moreover, the chamber includes at least one burner (4), mobile along a direction Z substantially parallel to said axis Z-Z and adapted to deposit, on said at least one elongated element, a preform formation chemical substance, and at least one suction element (6) arranged on the opposite side to said at least one burner with respect to said axis Z-Z and adapted to collect exhaust chemical substances. Advantageously, said at least one burner (4) and said at least one suction element (6) are mobile from and toward axis Z-Z so as to keep the fluid dynamic phenomena regular inside the chamber during the chemical deposition process. <IMAGE>

IPC 1-7

C03B 37/014; **C03B 37/012**

IPC 8 full level

C03B 37/012 (2006.01); **C03B 37/014** (2006.01)

CPC (source: EP)

C03B 37/01202 (2013.01); **C03B 37/01406** (2013.01); **C03B 37/0142** (2013.01); **C03B 37/0144** (2013.01); **C03B 37/01486** (2013.01); **C03B 2207/62** (2013.01); **C03B 2207/66** (2013.01); **Y02P 40/57** (2015.11)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11 26 December 1995 (1995-12-26)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19 5 June 2001 (2001-06-05)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 17, no. 236 13 May 1993 (1993-05-13)
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